

REMARKS

Claims 1 and 37-72 remain pending in the application. No claims have been added, canceled, or amended. Reconsideration of the application is respectfully requested.

Claims 1, 37-40, 44-51, 54, 55, 57-59 stand rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Pat. No. 5,481,262 to Urbas (“Urbas”). Claim 1 recites, among other things, a transceiver that includes a modulator means that varies “the impedance between the antenna and the signal processor means for providing the antenna with a dual Q-factor; the-Q-factor being high for the first signal and low for the second signal.”

Applicant respectfully submits that claim 1 distinguishes over Urbas. Urbas is directed to a passive transponder that includes a receive antenna 4 and a transmit antenna 11. See Urbas, FIG. 2. The receive antenna 4 receives an excited signal and inputs a signal to a rectifier/regulator 5. Urbas, Col. 3, ll. 64-66. The rectifier/regulator 5 rectifies the signal and then passes it through a frequency generator modulator 6. Urbas, Col. 4, ll. 1-7.

First, Urbas does not disclose a single antenna for receiving a first signal and transmitting a second signal. As shown in FIG. 2 of Urbas, the system of Urbas includes two antennas: 1) a receive antenna 4; and 2) a transmit antenna 11. In contrast, claim 1 recites an antenna for receiving a first signal and transmitting a second. Second, the frequency generator and modulator 6 of Urbas does not provide the antenna with a dual Q factor that is high for a first signal and low for a second signal. The Action cites to col. 7, ll. 15-22 of Urbas for this feature; Applicant respectfully disagrees.

In col. 7, ll. 15-22, Urbas discloses the use of a flip flop 614 to control counting of other flip flops. According to Urbas, if an output is equal to one, then the Q output of the flip flop 614 goes high, causing the output of a flip flop 612 to go low. Urbas does not describe two signals, one which has a high Q factor and one which has a low Q factor. Instead, Urbas discloses flip

flopping the Q output for a single signal. Therefore, for at least the above reasons, claim 1 and its dependents are believed to be allowable over Urbas.

Independent claims 37, 49, 50, 57, and 59 each recite, among other things, an antenna for receiving a first RF electromagnetic signal and transmitting a second RF electromagnetic signal. As stated previously in relation to claim 1, Applicant respectfully submits that Urbas does not teach or suggest this distinguishing feature.. For at least this reason, claims 37, 49, 50, 57, 59, and their dependents are deemed to distinguish over Urbas.

Independent claim 54 is directed to an antenna that includes a “modulator means disposed in series with the antenna” such that a coil is provided with a simultaneous dual Q factor, “the Q factor being high for the first current and low for the second current.” As stated above in reference to claim 1, Applicant respectfully submits that Urbas fails to teach or suggest this distinguishing feature. Therefore, for at least this reason, independent claim 54 and its dependents are deemed to distinguish over Urbas.

Claims 41-43, 52, 53, 56, and 60-72 stand rejected as being unpatentable under 35 U.S.C. §103(a) over Urbas in view of U.S. Pat. No. 5,374,930 to Schuermann (“Schuermann”). As stated previously, Urbas fails to teach or suggest an antenna for receiving a first RF signal and transmitting a second RF signal. Schuermann is similarly deficient. Schuermann discloses a first antenna 28 for transmitting RF energy and a second antenna for receiving the RF energy. Schuermann, Col. 4, ll. 53-56. Therefore, for at least this reason, because neither Urbas nor Schuermann, alone or in combination, discloses all the features of claims 60, 71, claims 60 and 71 and their respective dependents are deemed to distinguish over the combination of Urbas and Schuermann.

Independent claims 70 and 72 were also rejected as being obvious over Urbas in view of Schuermann. Claim 70 is directed to a tuned antenna including a coil for receiving a first radio

frequency (RF) electromagnetic signal having a first predetermined frequency and thereby generating a second electrical signal. Claim 72 is directed to a method for receiving and transmitting RF signals comprising receiving the first signal in a coil and then transmitting a fourth signal via the coil. Neither Urbas nor Schuermann discloses these distinguishing features. As stated previously, Urbas discloses two antennas. Similarly, Schuermann discloses two coils 30 and 36. Therefore, for at least this reason, claims 70 and 72 are deemed to distinguish over the combination of Urbas and Schuermann.

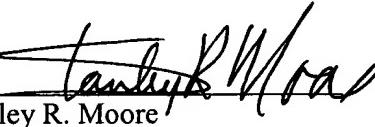
Claims 41, 52, and 56 were also rejected as being obvious over Urbas in view of Schuermann. Each of claims 41-43, 52, 53 and 56 ultimately depends from one of independent claims 37, 50, and 54. Independent claims 37 and 50 each recite, among other things, an antenna that receives a first RF signal and transmits a second RF signal. Because claims 41-43, 52, and 53 ultimately depend from one of claims 37 and 50, claims 41-43, 52, and 53 include this feature. As stated above, neither Urbas nor Schuermann teaches or suggests this distinguishing feature. For at least this reason, claims 41 and 52 are deemed to distinguish over the combination of Urbas and Schuermann.

Independent claim 54, as stated previously, includes the feature that the coil is provided with a simultaneous dual Q factor that is high for the first current and low for the second current. Because claim 56 ultimately depends from claim 54, it also includes this feature. As stated previously with respect to claim 54, neither Urbas nor Schuermann teaches or suggests such a coil. For at least this reason, claim 56 is deemed to distinguish over the combination of Urbas and Schuermann.

In view of the above, each of the presently-pending claims in this application is believed to be in immediate condition for allowance. Accordingly, the Examiner is respectfully requested to pass this application to issue.

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Respectfully submitted,

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